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Hydrophilisation of acrylic polymer - by alkali treatment and then with water

A(4-F6D, 11-C4D) J(1-C3, 3-B3) L(3-E1A)
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A process for hydrophilication of acrylic polymer containing more than 30 mol.% of one or both of ester acrylate and ester methacrylate, comprises subjecting the polymer to an alkali treatment followed by treating with water. The alkali treatment is conducted by dipping the polymer film or sheet in an alkaline solution in batches or continuously. The treating temperature and time are preferably 60-100°C. and 5-20 hours. The treatment with water is used to remove the alkali and to promote the hydrophilication.

USE/ADVANTAGES

This process permits easy hydrophilication of materials which are inherently not hydrophilic, and makes it possible for acrylic polymer to be coated onto a substrate which will be used hydrophilically, e.g. a separator for batteries, fluid separator etc. (3ppW203).

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